

Enterprise Architecture PROD VaCMS Fit-for-Purpose Model



VaCMS Interfaces

DSNAP; VaCAP; Learnfare; Q5i; WOTC; LIS; NDNH; EBT;

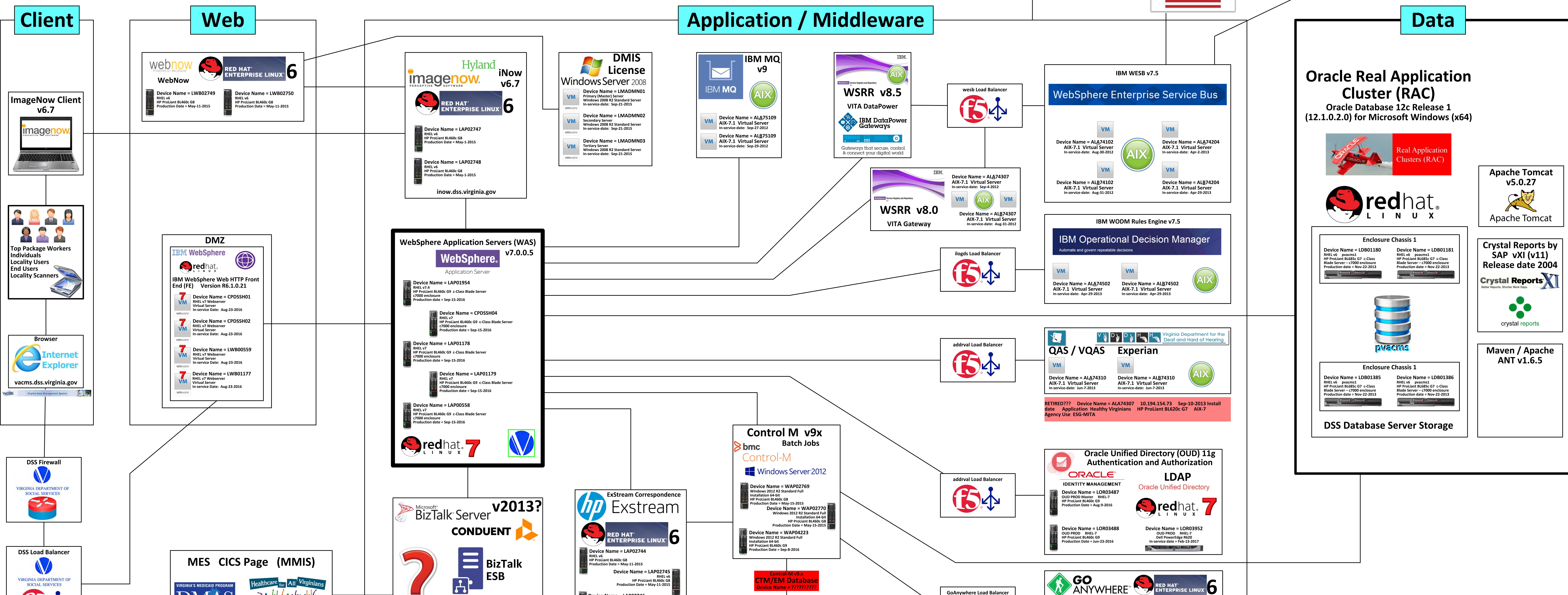
SSA; ESB/FDSH; BENDEX; EAL

CommonHelp/RIDP/FARS/MEC

App (ISRM); APECS;

**GoAnywhere Load Balancer** 

Center for Medicare Services CENTERS FOR MEDICARE & MEDICAID SERVICES healthcare.gov







**Yevice Name = ???????** 

Control M Workload Automation v9.0.00.500

- Distributed Systems Operations Production Control group logs into this system using Remote Desktop Connection (RDP)
- Import XML files into Control-M

Device Name = WAP02901

Windows Server 2012 R2 Standard Production Date = Nov-4-2015

- Batch job monitoring.

Device Name = LAP02746

Production Date = May-11-2015

correspondence.cctest.dss.virginia.gov:

443/EWS/EngineService?wsdl

HP ProLiant BL460c G8

Department of Medical Assistance Services

The mission at the Department of Medical Assistance

Services (DMAS) is to provide a system of high quality and

cost effective health care services to qualifying Virginians

and their families. http://www.dmas.virginia.gov/

**MFT Interfaces** 

BMS; DMIS Bulk Upload; VDH Birth; TANF-EPPIC; APECS;

DMAS Data Warehouse Interactive Voice Response (IVR);

Department of the Treasury; Accuity/AVS; DIFSLA;

DDS; TOP; TANF Fed Reporting (ACF); ESB/FDSH; Wells

Device Name = LAP01854

RHEL v6 Virtual Server Created Date = Oct-23-2014

SFTP Server – GoAnywhere MFT

**Device Name = LAP01951** 

Created Date = Nov-21-2014



VaCMS is the eligibility and case management solution for: SNAP/SNAPET, TANF/VIEW (Virginia Initiative for Employment, not Welfare), Child Care, Medicaid, Energy Assistance (EAP/

The solution includes an enterprise framework for document management and imaging.

The solution includes on line information exchanges with the Federal Hub Services, including an asset verification service.

Enterprise Architecture PROD VaCMS Fit-for-Purpose Model

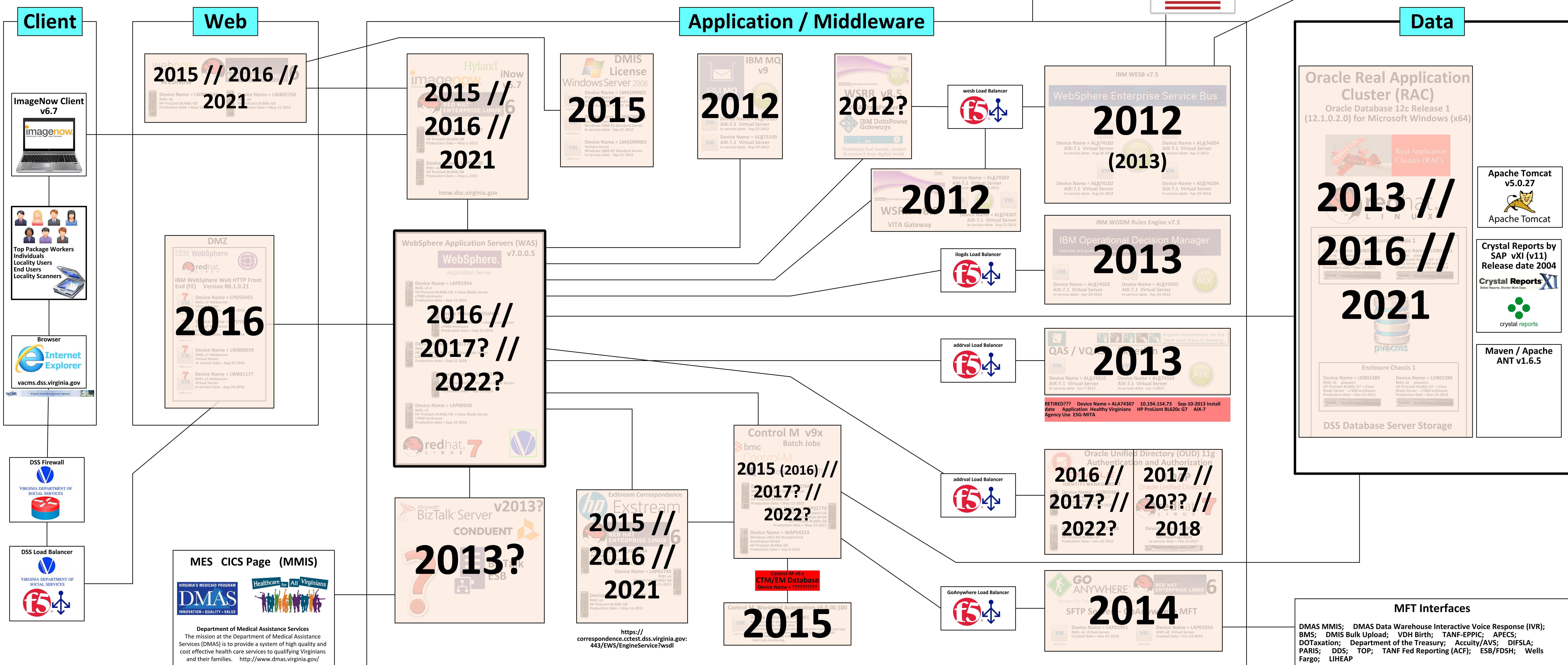
## Device In-service // Retired // End of Support Years

VaCMS Interfaces

DSNAP; VaCAP; Learnfare; Q5i; WOTC; LIS; NDNH; EBT; SSA; ESB/FDSH; BENDEX; EAL App (ISRM); APECS; CommonHelp/RIDP/FARS/MEC





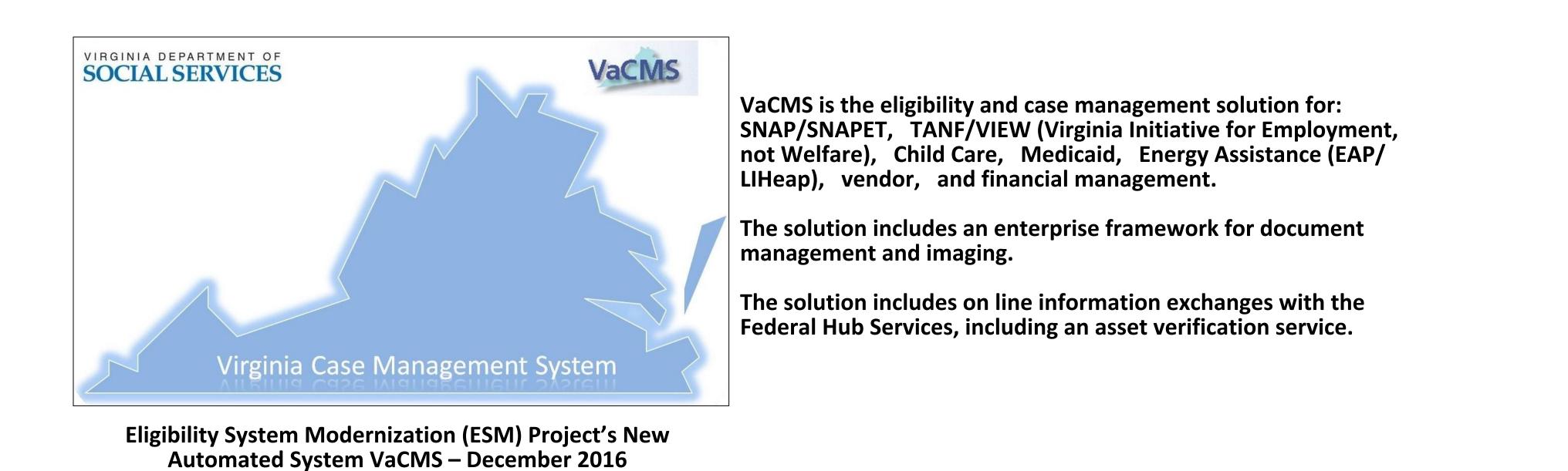






and their families. http://www.dmas.virginia.gov/

As of January 31, 2019: 1) Overall diagram accuracy is assessed at 90%; 2) Overall diagram completion is assessed at 95%.

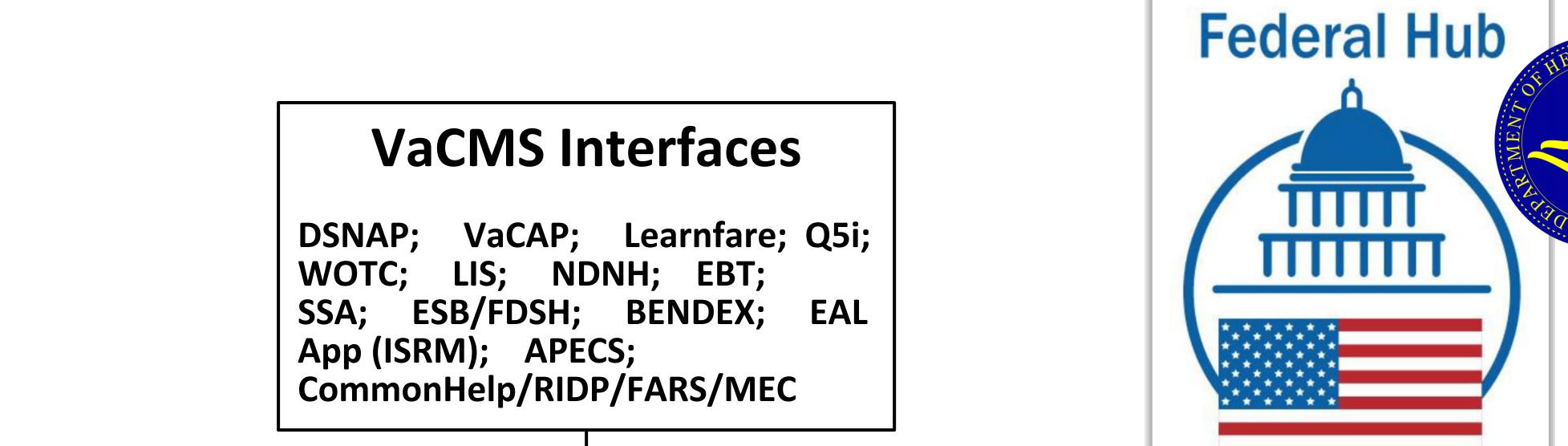




SW General Availability Year //

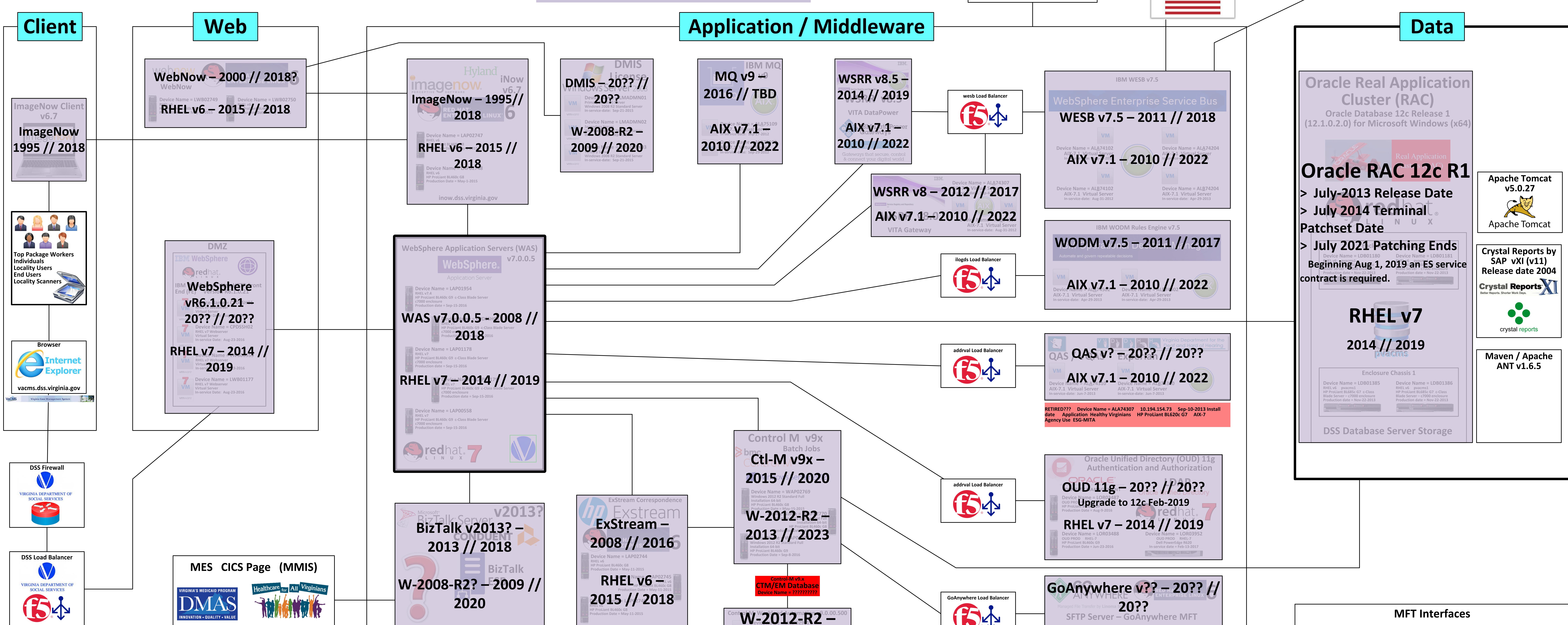
Version General End of Support or

Substantial Change of Support, etc.



Fed Hub

**Center for Medicare Services** healthcare.gov







Distributed Systems Operations Poduction Control coupled Interthilesystem using Jemore Desktop Contection (RD) Import XML trees into Control-M

correspondence.cctest.dss.virginia.gov:

443/EWS/EngineService?wsdl

VITA Draft Discussion Document // Rev: Jan-31-2019

RHELV6 Virtual Server
RHELV6 Virtual Server
RHELV6 Virtual Server
RHELV6 Virtual Server
2015 Creaded Virtual Server
2015 Creaded Virtual Server
2018

DMAS Data Warehouse Interactive Voice Response (IVR);

BMS; DMIS Bulk Upload; VDH Birth; TANF-EPPIC; APECS;

DOTaxation; Department of the Treasury; Accuity/AVS; DIFSLA;

PARIS; DDS; TOP; TANF Fed Reporting (ACF); ESB/FDSH; Wells

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**BizTalk** – Microsoft BizTalk Enterprise Service Bus (ESB) includes a variety of adapters for communication protocols, so industry-standard communication methods such as HTTPS, SFTP, and SOAP can be used to securely interface with other systems to exchange data. Through our Microsoft BizTalk ESB, we will share the data within the Provider Data Store with the other authorized Virginia MES vendors efficiently, securely and accurately. Enterprise Service Bus (ESB) Foundation. Publishes all Provider Enrollment data needed for interfaces, the EDWS, and other systems.

**Control-M** by BMC simplifies management and monitoring of batch processes, integrating all aspects into a single viewpoint, providing an increased span of control,

improving productivity, and reducing errors and delays.

**DMIS Licenses** – VaCMS Document Management and Imaging System (DMIS). The DCSE DMIS project has a deliverable that requires DSS to deliver a single "merged" document management solution which can only be completed when VACMS's "version" is upgraded and then work will be completed to actually merge the two independent solutions into one true enterprise solution for the agency. Implementation of a DMIS will improve information sharing, worker efficiency, and effectiveness. The system will implement electronic imaging and storage of all case related documentation, including client applications and all supporting documentation and narratives. The imaging system will enable user interface accessibility from the CH and VaCMS.

**ExStream Correspondence** – OpenText Exstream Customer communications management (CCM) software. Promotes engagement by providing ability to create ultra-personalized content tailored for various customer communication channels & devices.

**F5 Load Balancer** – A load balancer is a device that acts as a reverse proxy and distributes network or application traffic across a number of servers. Load balancers are used to increase capacity (concurrent users) and reliability of applications. They improve the overall performance of applications by decreasing the burden on servers associated with managing and maintaining application and network sessions, as well as by performing application-specific tasks.

Federal Data Services Hub (Fed Hub; Data Hub; Federal Hub, et.al.) – The data hub is a CMS system that acts as a single portal for exchanging information between the FFM and CMS's external partners, including other federal agencies, state-based marketplaces, other state agencies, other CMS systems, and issuers of qualified health plans. The data hub was developed under contract by Quality Software Services, Inc., and made available for use on October 1, 2013. The data hub was designed as a "private cloud" service. The Centers for Medicare & Medicaid Services (CMS) has overall responsibility for key federal systems supporting Healthcare.gov, including the Federally Facilitated Marketplace (FFM) system, which contains several modules that perform key functions related to health plan enrollment, and the Federal Data Services Hub (data hub), which provides connectivity between the FFM and other state and federal systems.

**GoAnywhere MFT** – Go Anywhere Managed File Transfer (MFT) solution. Encrypted PHI Data at rest and in transit. Enterprise-level solution which can secure, automate and manage all file transfer needs through a single interface. With security controls and detailed audit trails, it helps to comply with data privacy regulations & PCI DSS. Automates Server-to-Server file transfers and simplifies Person-to-Person file sharing & collaboration. Application Benefit Delivery Automation Project (ADAPT)

ImageNow (iNow) – Content management SW system that adapts to your business processes. Uploads, organizes, & stores documents & content. Ensures all documents are secure, quickly retrievable, & tied to the files & apps you want, with comments & annotations as needed. Can capture & manage data from emails, reports, & non-image file formats such as DOC & TXT. Can assign tasks to users, move documents to users through a workflow, & more.

**WebNow** – Thin-client product that runs on a web application server. It's a browser-based solution for use with ImageNow enterprise content management. Works with ImageNow to deliver to your browser secure, digital versions of paper or other electronic documents associated with your workflow activities or app SW transactions. Think of it as an alternative to ImageNow when one is accessing the capabilities from off agency campus or outside internal networks.

MQ – WebSphere MQ, which is often referred to as "MQ", is IBM's Messaging solution for Enterprise and IBM's Message Oriented Middleware offering. Allows independent and potentially non-concurrent apps on a distributed system to securely communicate with each other. https://en.wikipedia.org/wiki/IBM\_WebSphere\_MQ. Robust Asynchronous Messaging (MQ) – guarantees persistence of messages and supports publish/subscribe model (VDH publishes death notice once on queue, agencies subscribe as needed (daily, weekly, etc.) Queue Manager – DSSPQM01: 1) Send - PROD\_DSS\_VACMS\_MMIS\_SEND\_QUEUE; 2) Receive - PROD\_DSS\_VACMS\_MMIS\_RECEIVE\_QUEUE

Oracle RAC – An Oracle RAC Database is a clustered database. A cluster is a group of independent servers that cooperate as a single system. Clusters provide improved fault resilience and modular incremental system growth over single symmetric multi-processor (SMP) systems. In the event of a system failure, clustering ensures the highest availability to users while access to mission critical data is not lost. Redundant hardware components, such as additional nodes, interconnects, and disks, allow the cluster to provide high availability. Such redundant hardware architectures avoid single points-of-failure and provide exceptional fault resilience.

oud – Oracle Unified Directory (OUD) Authentication and Authorization serves as the authentication DB of record for all users, including state/local employees, contractors, volunteers, & extranet partners. OUD databases service data for the Employee Directory and authentication to sensitive VDSS apps. Per Prasanna Pasyavala (prasanna.pasyavala@dss.virginia.gov) on Jan-28-2019 @ 15:08: We use Oracle Universal Directory (OUD) product for LDAP. We have three OUD servers in a cluster in production with a load balancer in the front. There are two applications (SAMS and Securelocal) and one batch program that write to OUD. Those three access one of the OUD servers directly to write. The data is replicated to the other two OUD servers using built-in replication feature. The remaining apps, one of which is VaCMS, read from OUD through a load balancer. VaCMS in PROD runs on five Websphere application servers. Those five app servers connect to OUD for user authentication.

VaCMS – Virginia Case Management System (VaCMS) is the eligibility and case management solution for SNAP/SNAPET, TANF/VIEW (Virginia Initiative for Employment not Welfare), Child Care, Medicaid, Energy Assistance (EAP/LIHeap), vendor, and financial management. Solution includes an enterprise framework for document management and imaging; includes online information exchanges with Federal Hub Services, including an asset verification service. Info = prqm; pspider; pvacms. https://vacms.dss.virginia.gov

**VQAS** – Virginia Quality Assurance Screening (VQAS) is administered by the Virginia Department for the Deaf and Hard of Hearing (VDDHH) in accordance with "Regulations Governing Interpreter Services for the Deaf and Hard of Hearing". It is designed to assist the developing professional to identify their strengths and weaknesses in knowledge and skills of interpreting in order to assist increasing interpreting competence.

**WAS** – WebSphere Application Servers (WAS). WebSphere Application Server (WAS) is a software product that performs the role of a web application server. More specifically, it is a software framework and middleware that hosts Java-based web applications. It is the flagship product within IBM's WebSphere software suite. It was initially created by Donald F. Ferguson, who later became CTO of Software for Dell. The first version was launched in 1998.

WESB – IBM WebSphere Enterprise Service Bus (WESB) is a flexible connectivity infrastructure for integrating applications as services, which reduces the number, size, and complexity of interfaces. An ESB: 1) CONVERTS between different transport protocols used by the participants; 2) VIRTUALIZES the location and identity of Participants; 3) TRANSFORMS message formats between participants; 4) APPLIES appropriate qualities of service for the given interaction, and 5) DISTRIBUTES business event info to/from disparate sources. Enterprise Service Bus (ESB) is the pipe that: A) Connects legacy applications to newly developed applications and services; B) Manages data exchanges between agencies and to/from external orgs. WESB is a flexible, dynamic, and extensible middleware service that enables agencies to simplify, expedite, and streamline their application integration and data exchanges. Agencies with specific data transformation can choose to add an ESB Transformation Extender (ESB-TX) to process standard data elements into new formats and data combinations, and ESB Transformation Extender Pack for Healthcare (ESB-TX-HC) to manage healthcare related requirements dealing with HIPPA, HL7 or Pharm-related data.

WODM Rules Engine — WebSphere Operational Decision Management (WODM) consists of three components: 1) Rule Designer, 2) Decision Center, and 3) Decision Server, which form the platform for managing and executing business rules and business events. Rule Designer and Decision Center provide the flexibility for functional and technical users to collaborate on authoring, editing, debugging, and testing rules either through a developer friendly IDE or a user-friendly business console. Decision Server is the module for executing rules in a managed environment; deployed as a centralized service that executes multiple rulesets on the requests of multiple clients, which provides various execution components for developers to integrate rule execution into enterprise applications.

**WSRR** – IBM Web Service Registry and Repository (WSRR). Central Service Catalog that informs ISS modules how / where they can find their target web service destination – like a GPS on the SOA highway. New web services can be added for possible use by others. This is the system of record for all SOA asset info. WSRR provides a UDDI v3 compliant catalog for publishing, discovering, describing, and categorizing Web services across enterprises.